Please amend the application as follows:

## **Amendments to the Specification**

At page 7, line 9, change "position 81" to -position 80-.

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Currently Amended) A mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin selected from the group consisting of NGF, NT-3 and BDNF having improved secretion efficiency as compared to a wild-type neurotrophin, wherein the wild-type pro-neurotrophin has an asparagine residue at a position 8 amino acids upstream from the site of cleavage for the mature neurotrophin, the mutant pro-neurotrophin comprising a polypeptide in which the wild-type asparagine residue is replaced by a basic residue.
- 2. (Previously Presented) The mutant pro-neurotrophin according to Claim 1, wherein the basic residue is serine.
- 3. (Cancelled) The mutant pro-neurotrophin according to Claim 1, wherein the corresponding neurotrophin is selected from the group consisting of NGF, NT-3 and BDNF.
- 4. (Previously Presented) The mutant pro-neurotrophin according to Claim 1, wherein the polypeptide is a recombinant one, and the replacement of the wild-type asparagine is made by mutation of a polynucleotide encoding the wild-type pro-neurotrophin.
- 5. (Currently Amended) A mutant pro-neurotrophin for use in intracellular processing of [a corresponding] the NT 4/5 neurotrophin having improved secretion efficiency as compared to [a] wild-type NT 4/5 neurotrophin, wherein the wild-type pro-neurotrophin has an asparagine residue at a position 4 amino acids upstream from the site of cleavage for the mature neurotrophin, the mutant pro-neurotrophin comprising a polypeptide in which the wild-type asparagine residue is replaced by a basic residue.
- 6. (Previously Presented) The mutant pro-neurotrophin according to Claim 5, wherein the basic residue is serine.
- 7. (Cancelled) The mutant pro-neurotrophin according to Claim 5, wherein the corresponding neurotrophin is NT-4/5.
  - 8. (Previously Presented) The mutant pro-neurotrophin according to Claim 5,

wherein the polypeptide is a recombinant one, and the replacement of the wild-type asparagine is made by mutation of a polynucleotide encoding the wild-type pro-neurotrophin.

- 9. (Previously Amended) A mutant pro-neurotrophin precursor polypeptide selected from the group of polypeptides consisting of SEQ.ID.Nos. 2, 4, 6 and 8.
- 10. (Previously Presented) A mutant pro-neurotrophin comprising the precursor polypeptide of Claim 5 joined by a cleavage site to a corresponding mature neurotrophin.
- Claims 11- 25 are withdrawn as non-elected claims, without prejudice to their presentation in a later-filed application.
- 11. (Withdrawn) A polynucleotide encoding a mutant pro-neurotrophin, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 8 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue.
- 12. (Withdrawn) The polynucleotide according to Claim 7, wherein the substitution codon encodes serine.
- 13. (Withdrawn) The polynucleotide according to Claim 7, wherein the corresponding neurotrophin is selected from the group consisting of NGF, NT-3 and BDNF.
  - 14. (Withdrawn) The polynucleotide of SEQ.ID.No. 16.
- 15. (Withdrawn) A polynucleotide encoding a mutant pro-neurotrophin, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 4 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue.
- 16. (Withdrawn) The polynucleotide according to Claim 15, wherein the substitution codon encodes serine.
- 17. (Withdrawn) The polynucleotide according to Claim 15, wherein the corresponding neurotrophin is NT-4/5.
- 18. (Withdrawn) A recombinant expression vector containing the polynucleotide of any of Claims 11, 14 or 15.
- 19. (Withdrawn) A host cell containing the recombinant expression vector of any of Claims 11, 14 or 15.
- 20. (Withdrawn) A pharmaceutical composition comprising the recombinant expression vector of of any of Claims 11, 14 or 15.

- 21. (Withdrawn) A pharmaceutical composition comprising the host cell of of any of Claims 11, 14 or 15.
- 22. (Withdrawn) A process for producing a mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin having improved secretion efficiency as compared to wild-type neurotrophin, the process comprising (a) synthesis of the mutant pro-neurotrophin encoding polynucleotide, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 8 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue; and (b) causing the synthetic polynucleotide to express the pro-neurotrophin.
- 23. (Withdrawn) The process according to Claim 22, wherein the polynucleotide of Claims 11 or 14 is produced by step (a).
- 24. (Withdrawn) A process for producing a mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin having improved secretion efficiency as compared to wild-type neurotrophin, the process comprising (a) synthesis of the mutant pro-neurotrophin encoding polynucleotide, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 4 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue; and (b) causing the synthetic polynucleotide to express the pro-neurotrophin.
- 25. (Withdrawn) The process according to Claim 22, wherein the polynucleotide of Claim 15 is produced by step (a).

## **REMARKS**

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Claims 3 and 7 are requested to be cancelled.

Claims 1 and 5 are currently being amended.

Claims 11-25 are being withdrawn as non-elected claims.